### THE OCEAN DEPTHS.

LIFE IN THE MARINE ABYSSES.

THREE CRUISES OF THE U.S. COAST AND GEO-DETIC SURVEY STEAMER BLAKE IN THE GULF OF MEXICO, IN THE CARIBREAN SEA, AND ALONG THE ATLANTIC COAST OF THE UNITED STATES, FROM 1877 TO 1880. By Alexander Agassiz. In two volumes. Svo. pp. 111., 314; 220. Houghton, Mifflin & Co.

These handsome volumes are offered by Professor Agassiz as a "contribution to American Thalass- in no small part attributable to the insufficiency ography." They contain the record of three cruises of the means placed at their disposal by the Govin the steamer Blake for the purpose of taking soundings and obtaining information concerning the fauna and flora of the ocean spaces. Though small, so that her instability when there was much sea on constantly hindered the delicate work of sounding and trawling, the men of science on board her missed no opportunities, and in the end succeeded in performing an amount of work which compares favorably even with the results of such magnificently equipped expeditions as that of the British ship "Challenger." Professor Agassiz also made careful studies of the coral formations on the Florida coast. At the outset he was struck by the appearance of several conditions which seemed incompatible with Darwin's well-known theory of the growth of coral ree's, and the further his investigations proceeded, the more convinced did he become that, however well Darwin's hypothesis explains the atoll formations, it does not apply to the coral growth on the Florida coasts, where the existence and constant operation of a complicated system of currents produce peculiar and possibly unparalleled conditions, to which the coral insects are compelled to adapt

Much new light has been thrown upon the conditions of animal life in deep water by these cruises, though it is evident that the arrangements for bringing the deep-sea creatures to the surface are yet far from complete. The deep-sen sounding apparatus invented by Sir William Thompson has en greatly improved by American naval officers, and the improved machinery was used on the Blake. it much greater accuracy in registering the housand fathoms. Many valuable improvements ave been made in the instruments for recording the pressure at great depths, for registering the temperature of the water, and for bringing up samples of the ocean bottom. The dredging and trawling apparatus has also been made much more effective; but hitherto no means have been devised for overcoming the effects upon the deep-sca to the surface. The animals which are organized withstand enormous pressures in the depths of KNITTING-CROCHET. the ocean, when relieved from it, fall to pieces, or so nearly that on reaching the surface their structure is usually so disorganized as to render the examination of them very difficult and often In the case of the deep-water crustacae this obstacle is not serious, but with the softtissued fishes the removal of pressure effects strange metamorphoses, sometimes reducing the Much insight was gained into the state of the

ecan bed in its deeper parts. It was ascertained that there are vast spaces where the only deposits appear to be pelagic, the remains of these creatures slowly sinking through regions which appear to water-though at present this can only be regarded as a working hypothesis, the data for definite conclusions being insufficient. There is evidence tending to the belief that beyond a certain quite amoderate depth the inhabitants of the ocean spaces diminish rapidly in numbers and activity; but it is also apparent that at the lowest depths, that is, on and near the bottom, life of many kinds abounds. Ocean life is largely affected by differences in temperature, and, therefore, by the operaew degrees will populate or depopulate large MISS PEEBLES AND MISS THOMPSON'S areas. This, of course, is only in the upper strata of the sea. In deep water, the temperature is nearly the same everywhere, so that the fauna older types have been preserved in the depths. The speculations of some scientists concerning the possible survival in the profound ocean deeps of the fauna which abounded in the earth's earlier ages have not been borne out so far by any discoveries. No evidence has been obtained of the existence of great fishes, or crustaceans, or other archaic forms of life, with the exception of the gigantic cephalopods of the North Atlantic and some parts of the Indian Ocean. That there are course, be asserted, for, after all, scientific research has been so far little more than tentative. Nor is the question as to the exclusion of light from 13, 32 East 45th-st. the ocean depths, and the effect of darkness upon the inhabitants of those depths, satisfactorily de-

Many forms of life have been found in which the eyes are aborted, or plainly in process of abortion, but, on the other hand, many deep-dwelling creatures have been brought up with well-developed organs of sight. In some instances, even the ooze-dwellers are able to see, though it is difficult to understand what use eyes can be to them. Nature, however, rarely preserves organs which have ceased to be serviceable, and it may perhaps be conjectured that the animals which retain their eyes while inhabiting the dark ocean depths are not stationary but migratory species, and have come to their present habitat from regions to which the light penetrated. This is the more probable, inasmuch as the older types are generally found to be blind, the uscless eyes being replaced by an increased delicacy of tactile sense. Another interesting fact is the frequent phosphorescence of deep-sea creatures. In those abysses they carry their own illuminating apparatus with them. The arrangement must have its drawbacks even for strong preying fishes, since such devourers always have yet more powerful enemies to pursue and destroy them. It might be thought, too, that the phosphorescence would warn off their natural prey, but perhaps it operates as a fascination and attracts it. It may safely be concluded, from the survival of phosphorescent creatures, that their conspicuousness is more advantageous than hurtful to them. Nature never adapts her creatures out of existence, but, in every thange she makes, seeks to bring them into closer tonformity with their environment.

Below a few hundred fathoms the filtration of

light ceases, and with it the growth of marine vegetation. Now innumerable creatures subsist apon the vegetation which is abundant in moderate possible, it is apparent that many forms of life are also excluded. In the vast abysmal spaces of the great oceans therefore the probability is that immense areas are as void of organic life as the lunar plains and craters; save at the ocean bed, where globigerina ooze presents the lowest and simplest form of existence. Nothing gloomier, more desolate and horrid than these black and impenetrable ocean-abysses can be imagined, and it would be almost a relief to be told that they were still inhabited by some of the monstrous forms which crawled and swam and dived and burrowed in the primeval waters and the primeval mud.

Professor Agassiz's volumes are filled with plates thowing forth the quaint and curious creatures that inhabit the sea. Few of them are things of beauty. In the majority the salient characterstics are marvellous adaptations to feral nesessities. Such ingenious mechanism in jaws and zeth and claws and suckers and palpae for sutting and tearing and seizing and holding, and in general for killing and rending sunder and devouring their neighbors and contemporaries, irresistibly suggests fennyson's line about Nature, " red in tooth and tlaw with ravine." Before a millennium can tome to these marine animals, their whole line of development will have to be reversed. Even when grace and beauty are conspicuous, as among the pelagic fauna, these attributes are only masks for ferocious purposes, and the brilliant colors, he graceful undulations of tentacles, the gentle novement of flower-like processes, are merely neans to the same destructive end. The illustraions of characteristic deep-sea types by

Professor Agassiz and his colleagues are numerous and full of surprisingly The chapters on "Deep-Sea Formations," on "The Florida Reefs," on "The Gulf Stream," "Submarine Deposits," and "The Physiology of Deep-Sea Life" are of a character to interest the lay reader, as well as the man of science; and the whole narrative exhibits in a striking manner the perseverance, courage and ingenuity of the naval officers and the scientists who pursued their labors under difficulties which were

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OFFICE OF THE HOMESTAKE MINING COMPANY, MILLS BUILDING, 15 BROAD-ST.

Now-York, July 16, 1888.

DIVIDEND NO. 12 0.

The Regular Monthly Dividend—TWENTY CENTS per share—has been declared for June, payable at the office of the company, San Francisco, or at the Transfer Agency in New-York, on the 25th Inst. Transfer books close on the 20th. LOUNSBERY & CO., Transfer Agents.

ST. LOUIS AND SAN FRANCISCO RAILWAY COMPANY, 15 BROAD-ST. (Mills Ruilding), New-York, July 16, 1888.

THE USUAL semi-annual dividend (No. 16), of THREE AND ONE-HALF (3 1-2) PER CENT, on the first preferred stock of this company, has been distred, and is payable on and after August 10, 1888, at stockholders of record on the books in this office as of July 23, 1888, at 3 p. m. stockholders of record on the books in this once as of July 23, 1888, at 3 p. m.

No certificates of first preferred stock will be received for transfer after Monday, July 23, 1888, at 3 p. m., until the morning of August 13, 1888.

T. W. LILLIE, Treasurer.

WHY NOT INCREASE YOUR INCOME?

you have \$10,000 invested in Government Bonds at present value you will receive in ten years at simple interest nearly at simple interest nearly
If in Saviners Banks, about
New-York Central R. R. Bonds would produce in
the same time nearly
The 6 per cent Debentures of the Western Farm
Mortrage Co. would yield
The 7 per cent Guaranteel Mortgages of the Western
ern Farm Mortgage Trust Co. would pay in the
same time
This company has placed nearly Ten Millions in loans
without the loss of a dollar of principal or interest to the
investor.

investor. WM. T. PRATT, Manager, 

To Stockholders of the Sutro Tunnel Company who have not assented to the Plans of Reorganization.

New-York, June 21, 1888.

REPERRING TO ABOVE ADVERTISEMENT THE REGREANIZATION COUNTITIES HEREBY GIVE NOTICE THAT THE TIME FOR SUBSCRIB-ING TO THE NEW BONDS IS EXTENDED TO JULY 25TH, 3. P. M. New-York, July 10, 1888.

# OFFICE OF THE NEW-YORK MUTUAL TELEGRAPH COMPANY.

Successor to the Mutual Union Telegraph Company, 16 BEGAD-ST., NEW-YORK CITY. Company and Stockholders of the New-York Mutua Telegraph Company:

By resolution of the Board of Directors this company offers to fund the ccupons, due 1st January and 1st July, 1888, of the first mercage bonds of said company, upon their deposit with the Farmers' Loan and Trust Company, who will pay \$5 per ccupon in cash and fund the balance in serip certificates bearing 4 per cent interest, asyable annually on 1st April, redeemable 1st April, 1893, or somer, at the option of the company, coupons to remain in hands of the Trust Company until full payment of all scrip certificates.

J. G. WALKER, Pres. J. J. LITTLEFIELD, Sec. B. B. BUSH, Treas. Clark County Loan and Investment Co. Capital Stock, \$50,000. Englewood, Kan.

tificates.
The Farmers' Loun and Trust Company will be ready to receive said coupons on 16th July.

E. F. LEONARD, President.

Places money on the best of lands in Southwestern Kansas. Interest from 6 to 8 per cent. Any one desirous of placing loans on the best Real Estate Security, we would be pleased to correspond with References: First National Bank, Lincoln;

J. G. WALKER, Pres., Troy, Kansas.

WE OFFER JULY INVESTORS

OUR OWN 6 PER CENT

NEW-ENGLAND LOAN AND TRUST CO., Missouri, Kansas and Texas Railway Co.

To the Holders of
GENERAL CONSOLIDATED MORTGAGE BONDS.
Since our application to the United States Circuit
Court in June was sustained, the Missouri Factic Ratiway Company has consented to pay taxes, labor claims and
operating expenses of the Missouri, Kansas and Texas
Ratilway Company, and we have therefore decided to defer for a short time our motion for naming the Receiver.
Meantime our foreclosures are progressing and bondholders should unite for combined action, sending names,
addresses, amount and rate of bonds to one of the undersigned.

EDWARD D. ADAMS.

Winslow, Lanter & Co., 17 Nassau-st.
WILLIAM L. BULL.
WILLIAM L. BULL.
WILLIAM WHITEWRIGHT,
Chion Trust Company, 71 Broadway.
WILLIAM MERTENS,
L. von Hoffmann & Co., 50 Wall-st.
WILLIAM E. STRONG.
Work, Strong & Co., 36 Broad-st.

TO INVESTORS.

Limited amount of 1st Mortgage 6 per cent Gold Bonds, of a City Passenger Ballway Co. EARNING NET, ABOUT FOUR TIMES THEIR INTEREST CHARGES

WE OFFER THE FOLLOWING LIST OF INVEST-

\$8,000 KINGSLEY, KANSAS, SCHOOL CA. \$35,000 SOUTH CHICAGO SCHOOL 5s. \$18,000 LICKING COUNTY, OHIO, 6s. \$10,000 RED CLOUD, NEB., WATER 6s. \$50,000 NORTH CHICAGO STREET R. R. 5s. \$15,000 WOODBURY COUNTY, IOWA, 5a. Further information as to price, &c., if desired. WE TRANSACT ANY BUSINESS IN THE LINE

OF LEGITIMATE BANKING. S. A. KEAN & CO.'S BANK, Chicago, successors Preston Kean & Co. 2 WALLST., CORNER BROADWAY, NEW-YORK. Main effice, 100 Washington-st., Chicago,

OFFICE CONTINENTAL INSURANCE COMPANY, No 100 Renadway, New-York, July 12, 1888.

THE BOARD OF DIRECTORS OF THIS company have this day declared an interest dividend of THREE, AND ONE-HALLS PER CENT upon the capital of the company and upon the amount of its "guaranty surgius" and special "reserve fund" formed in pursuance of the provisions of the act of the Legislatuno of the State of New-York, passed April 16, 1874, as amonded, entitled "An act to brovide security acidash extraordinary conflagrations and for the creation of safety funds by fire insurance companies"), payable on demand. They also order that the oldest outstanding scrip issues that of 1880-be redeemed in cash on and after 20th September next.

TO INVESTORS.

TO INVESTORS.

New York, July 9, 1888.

WE OFFER for sale, and recommend to investors, a few desirable Bonds carning double their interest, at a price which yields fully six per cent in gold upon the investment.

E. C. BENEDICT & CO., 29 Bread-st.

# Dressmaking.

D RESSMAKER.—By a first-class fitter and draper wishes a few more engagements by the day, or would go out of town; late of one of the leading houses; city references. Address D., 950 Broadway.



P OR SALE.—Controlling interest in morning newspaper, established about 50 years, in city of 125,000 inhabi-tants; circulation and fusiness in every respect first class. Address REPUBLICAN, P. O. Box 1,529.

## Board and Rooms.

THE PERCIVAL,
230 West 42d-st, near Broadway.
Parlor and bedroom, with bath and toilet, at reduced
rates until October; American plan or table d'hote.

WANTED.—By a clergyman, room and breakfast only,
and 55th sts, and 5th and 7th aves.; reasonable terma.

Address B., 106 West 42d-st.

Brooklyn.

F URNISHED ROOMS, 169 1-2 Columbia Heighte.

F Brooklyn; several destrable rooms to let, en suite of single; one room suitable for physician's office.

OST or STOLEN.—Bank-book No. 308,376, issued by Ithe German Savings Bank in the city of New-York, to Marle Liman. All persons are cautioned to negotiate the same and requested to deliver the book to the Bank, corner 14th-st. and 4th-ave. If not restored on the 7th day of August, 1888, application will be made to the Bank for a duplicate.

New-York, July 17, 1888.

I OST.-On Friday afternoon, July 13, a small leather bag; \$25 reward offered for returning bag and contents to JAS, WOOD, Baggage Department Harlem Railroad, Grand Central Depot.

# Co Whom It Man Concern.

IF ANNIE WELLS, the daughter of John Edward Wells, who died at Liverpool in November, 1898, and was castalled in the Guon Line ship Thomson, will apply the Citive's 4 SONS, Solidiors, Tunbridge Wells, England, she will hear of comething to be advantage. The mother of Annie Wels ample Cream O'Brien, Police Department, Prospect Park, Brooklyn.

WANTED-A Scotchman about 25 years old and single, who knows all about farming and is willing to work mard: wages, \$14 per month and found. Apply to J. RUSZITE, 75 Mercer-st. WANTED—A strictly first-class woman cook to go to the country until October 1; wages 550 per month must have city references. Address by letter, L. D. J., Tribune Uptown Office, L.238 Broadway. Tribune Uptown Office, 1,238 Broadway.

A DVERTISEMENTS FOR THE NEW-YORK TRIBOFFICES, No. 1,238 Broadway, corner Tolicy-first-st,
until 9 p. m.; 950 Broadway, between Twenty-second and
Twenty-third sis, until 8 p. m.; 270 West Twenty-third
st, corner Eighth-ave.; 152 Sixth-ave.; 153 Fourth-ave.,
corner Fourteenth-st; 760 Third-ave., corner Fourteenth-st; 770 Third-ave., corner Fourteenth-st; 770 Third-ave., corner Fourteenth-st; 780 Third-ave., corner Fourteenth-st; 780 Third-ave., corner Fourteenth-st; 170 Third-ave., corner Fourteenth-st; 170 Third-ave., corner Fourteenth-st; 170 Third-ave., and First-ave.; 106 West Forty-second-st; Ninth-ave. and Sixtyeighth-st, and 60 Liberty-st, and the HARLEM OFFICE,
180 East One-hundred-and-twenty-fifth-st, up to 9 p. m.
at regular office rates.

A LEANY BOATS.

A Steamers DREW and DEAN RICHMOND leave Pier 41, North River, foot of Canal-st., at 6 P. M. daily (Sundays excepted). Leave Brooklyn Annex at 5 P. M. Making direct connections at Albany for all points East and West; also with 7:00 A. N. Special Express for Saratoga, Lake George, Lake Placid, Saranac Lake, Paul Smith's and all points South, arriving same day. Tickets and bargage checked to destination. Freight received until the hour of departure. A .-TROY BOATS, lighted throughout by Saratoga, Lake George with special express trains for Saratoga, Lake George, Paul Smith's, Lake Placib, all advondace and other points on Delawark AND HUBSON or FITCHBURG Railways. Steamer Saratoga or CITY OF TROY seave Pier 44, N. R. foot Christopher-st, duly except Saturday, 6 p. m. Sunday steamer touches at Albuny.

CATSKILL, HUDSON AND COXSACKIE.

CATSKILL HUDSON AND COXSACKIE.

ELEGANT STEAMER KAATERSKILL leaves
from foot Jay-st., N. R., every TUESDAY, THURSDAY
and SATURDAY at 6 p. m., connecting with Boston and
Albany Railroad.

WHEELER POWELL, Manager. CATSKILL MOUNTAINS. The Old Route.
CATSKILL EVENING LINE, steamers KAATERSKILL and CATSKILL leave every week day at 0, p. m.
from foot of Jay-st. N. R., connecting with Catskill Mountain and Cairo R. For list of houses, rates, &c., send
to pier or address W. J. HUGHES, Catskill, N. Y.

S TONINGTON LINE.

NARRAGANSETT PIER, WATCH HILL, AND POINTS

THEY ARE ENTIRELY FREE FROM ANY SPEC-Baggage checked through. Steamers leave New Pier 36, ULATIVE ELEMENT. CALL OR WRITE FOR PAR-North River, one block above Canal-st, at 5 p. m. daily,

MARA POWELL FOR CRANSTON'S, WEST Point, Cornwall, Newburg, New-Hamburg, Milton, Foughkeepsie, Hyde Park, Rondous and Kingston, Every week-day at Vesfryst. 3:15, and West 220-88, 330 p. m. excepting Saturdays when she leaves one hour earlier.

excepting Saturdays when she leaves one hour earlier.

I UDSON RIVER BY DAYLIGHT.

DAY LINE STEAMERS.

NEW-YORK

DAYLY (except Sundays).

Leave Brooklyn, Fulton-st. (by Annex). 5:00 a. m.

New-York, Vestry-st. Pier. 8:40

New-York, West 221 st. Pier. 9:00

for ALBANY, landing at West Point, Newburg, Pough
keepsle, Lininebeck, Catskill and Hudson.

Returning, leave Albany.

A fine BAND attached to each beat.

Connections: WEST POINT, NEWBURG and POUGHKEEPSIE WEST POINT, NEW BURG and POSORRELESSES, with down day boat.

RHINEBECK, by ferry with Ulster and Del. R. R. for resorts of the Catskills.

CATSKILL, with special trains on the Catskill Mt. R. R. HUDSON, with Boston and Albany R. R. for Chacham, Pittsfield, &c.

ALBANY, with N. Y. Central and H. R. R. for Utlea, NIAGARA FALLS, Buffalo, and the West; with Boston and Albany R. R. and Fitchburg R. R. for Boston, with D. and H. Co.'s R. R. for Montreal and the North, and with SPECIAL TRAINS TO AND FROM SARATOGA.

The New-York Transfer Co. will call for and check bacgage from hotels and residences.

TO NEW-HAVEN, 75c.
EXCURSION (good 6 days), 21 25.
Steamers C. H. NORTHAM and CONTINENTAL leave
Peck slip, Pier 25 E. R. 3 B. m. and 11 p. m. (Sundays
11 p. m.), seamesting at New-Haven with special trains
for MERIDEN, HARTFOED, SPRINGFIELD, HOLYOKE, &c. Through tickets sold and bankage checked 48
044 Broadway, New York, and 4 Courtst, Brooklyn.

OKE, &c. Through lickets sold and baggage checked as paid Broadway, New York and 4 Gourtst, Brooklyn.

[CALL RIVER LINE]

[FOR BOSTON, NEWPORT, FALL RIVER, PROV. IDENCE and all Fastors points.

DOUBLE SERVICE RESUMED

FOR THE SUMMER SEASON.

Four steamers in commission—PileRIM,

BRISTICL PROVIDENCE, and OLD COLONY.

Splendid orchestra attached to cach vossel.

Leave New York from Pier 28, N. R. (old. No.), food of Murray-st, as follows:

5-30 p. m.—For Fall River direct, connecting for Boston, Fichburg, New-Bedford, Martha's Vineyard, Nantucket and local points on Old Colony Railroad.

6-315 p. m.—For Newport and Fall River, due Newport about 5-35; Fall River, 7 a. m., connecting with express trains and through cars for Boston, Cape Cod, Lowell, the White Mountains, &c.

SUNDAYS, Lave New-York at 5-30 p. m. for all points. Returning leave Boston 7 p. m.

Connection by Annex boat daily from Breoklyn, 5 p. m.; Jersey City, 4 p. m. Tickers and statersoms may be obtained in New-York at 207, 261, 711, 944, 957 and 1,323 Bloadway; 204 West 125th-st, and 134 East 125th-st, 153 Bowery, Astor House and Windsor Hotel; Line Office, Pier 28, N. R., and on steamers.

Send 4 cents in stamps to P. O. Box 455 N. Y., for copy of "Fall River Line Tours," and "Old Colony or Pill's Mile Line Tours," and "Old Colony or Pill's Mile Line Tours," and "Old Colony or Pill's Mile Line Tours," and "Old Colony or Origins.

GEO. L. CONNOR. G. P. A. BORDEN & LOVELL, Agts.

N. OR. WICH LINE for Boston, Worcester,
Portland, White Mountains Direct route to NewLondon, Notwich, Watch Hill and Ricck Island.
Stosmers leave Pier 40 (old number), North
River, foot of Watts. E., (next pier above Deshrosses St. Forry), dairy, Sundays excepted, at 5:30 p. m.
This line has unequalled facilities for handling and distributing freight throughout New-England, One steamer,
each way daily, except Sundays, exclusively for freight,
Tlezots and Scats Rooms secured at 207, 201, 337, 397, 957
Rroadway, 10 and 12 Greenwich-st., 153 Bewery, In
Brooklyn, 4 Courts., 333 Washington-st. and 331 Fultontt. At Pier 40 North River, and on Stramers.

G. W. Bikady, Agent

PROVIDENCE LINE.

PROVIDENCE, WORCESTER, and all points North and

A through parlor car runs from steamers' wharf to

daily, except Sunday, connecting at steamers' wharf with 7:15 a.m. Wagner parlor cars, new equipment; full night's rest; short rail ride. Reeves's renowned orchestra on each steamer. Baggage checked through. RONDOUT, KINGSTON AND

No certificates of hist preferred stock will be received for transfer after Monday, July 23, 1888, at 3 p. m., until the morning of August 13, 1888.

ADVERTISEMENTS FOR THE NEW YORK TRIB. OFFICE OF THE

WILLIAMSBURG CITY FIRE INSURANCE CO.

Brocklyn, N. Y., July 13, 1888.

THE BOARD OF DIRECTORS have this day declared the usual Semi-Annual Dividend of TEN PER CENT, payable on demand.

P. H. WAY, Secretary.

CATSKILL MOUNTAINS.

Landing at Cranston's (West Point). Cornwall, Newburg.

Marib to, Milton, Pouguscopsie and Esopus, connecting with Uster and Delaware, Stony Clove, Catskill Mountain and JAMES W. BALDWIN leave every week day at 4. corner Fourty seventh-st.; 1,007 Third-ave., near Sixtle-th-st.; 1,708 Firsts.

The BOARD OF DIRECTORS have this day declared the usual Semi-Annual Dividend of TEN PER CENT, payable on demand.

P. H. WAY, Secretary.